

Claims

1. A mixing device for mixing gas and combustion air for a gas burner, it being possible for a mixture of gas and combustion air that is provided by the mixing device (10) to be fed to the gas burner by means of a blower, said mixing device having a housing (13) and a venturi nozzle (14), characterized in that the venturi nozzle (14) is integrated in the housing (13) in such a way that the housing (13) and the venturi nozzle (14) are formed as a monolithic unit.
2. The mixing device as claimed in claim 1, characterized in that the monolithic unit comprising the housing (13) and the venturi nozzle (14) is formed from plastic.
3. The mixing device as claimed in claim 1 or 2, characterized in that the monolithic unit comprising the housing (13) and the venturi nozzle (14) forms a flow duct for gas and combustion air, it being possible for combustion air to be sucked in at an inlet opening (15) of the same, the blower acting at an outlet opening (16) of the same, and the blower providing a suction pressure to suck in the mixture of gas and combustion air at the outlet opening (15).
4. The mixing device as claimed in claim 2 or 3, characterized in that the monolithic unit comprising the housing (13) and the venturi nozzle (14) formed from plastic is fastened on a metallic supporting plate (12) of the blower.
5. The mixing device as claimed in claim 4, characterized in that the monolithic unit comprising the housing (13) and the venturi nozzle (14) is fastened on the supporting plate (12) by means of a quick-acting closure.

6. The mixing device as claimed in claim 5, characterized in that the quick-acting closure is formed as a bayonet closure (19), an end on the outlet side of the monolithic unit being assigned projections (21), which can be introduced into corresponding recesses (20) within the supporting plate (12) of the blower, and which releasably fasten the monolithic unit on the supporting plate (12) of the blower after the monolithic unit and the supporting plate (12) have been turned in relation to each other.
7. The mixing device as claimed in one or more of claims 4 to 6, characterized in that the fastening of the monolithic unit on the metallic supporting plate (12) of the blower is sealed by means of a sealing device (23).
8. The mixing device as claimed in one or more of claims 1 to 7, characterized in that a gas regulating device (11) acts on the monolithic unit comprising the housing (13) and the venturi nozzle (14), a gas outlet stub (17) of the gas regulating device (11) being insertable into a corresponding recess in the monolithic unit.
9. The mixing device as claimed in claim 8, characterized in that the gas regulating device (11) is fastened on the monolithic unit comprising the housing (13) and the venturi nozzle (14) by means of a quick-acting closure.
10. The mixing device as claimed in claim 9, characterized in that the quick-acting closure is formed as a snap closure, a securing clip (24), assigned to the monolithic unit, gripping at least partially around the gas outlet stub (17) after the same has been inserted into the recess, in order to releasably fasten the gas regulating device (11) on the monolithic unit.
11. The mixing device as claimed in one or more of claims 8 to 10, characterized in that the fastening of the gas

regulating device (11) on the monolithic unit is sealed by means of a sealing device (25).

12. The mixing device as claimed in one or more of claims 8 to 11, characterized in that the recess of the monolithic unit at which the gas regulating device (11) acts is arranged between the inlet opening (15) and the outlet opening (16) of the flow duct formed by the monolithic unit.
13. A gas burner, with a combustion chamber, it being possible for a mixture of gas and combustion air to be fed to the combustion chamber by means of a blower, and the blower acting on a mixing device (10) for mixing gas and combustion air, sucking in the mixture provided by the mixing device (10) and feeding it to the combustion chamber, characterized in that the mixing device (10) is formed as claimed in one or more of claims 1 to 12.